

**In the United State Patent and Trademark Office**

Appn. Number: US 10/599,868 national phase

International Appn Nr. : WO 2005/112041 / PCT/EP2005/051405

Applicants: Robert Desbrandes, Daniel L. Van Gent

Title : REMOTE COMMUNICATION METHOD AND DEVICE  
USING NUCLEAR ISOMERS

Examiner: Johannes P. MONDT

Our Ref. EQ/2012/05/03/US02/a

Givarlais, France, 2012 May 19<sup>th</sup>

<b>Amendment following non-final action dated 2012-02-03</b>
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Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir,

We would like to thank you for the examination of our application.

Please, find the following sections:

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**ABSTRACT:** Unchanged.

**SPECIFICATION:** The clean text of the amended specification, which was entered January 1<sup>st</sup>, 2012 is submitted as separate file considering section 3 of the action dated February 3<sup>rd</sup>, 2012, as well as no new amendments:

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- File: US02-Desc-D-v1.pdf

**DRAWING:** Unchanged.

- 5    **CLAIMS:** The clean claim section of the amended claim section, which was entered February 3<sup>rd</sup>, 2012, begins on page 4 with minor corrections made in revision mode.

**REMARKS:** remarks begin on page 13.

- 10    **APPENDIX:** The appendix is a reproduction of [D1] Brian Julsgaard, Alexander Kozhekin & Eugene S. Polzik, "Experimental long-lived entanglement of two macroscopic objects", NATURE, VOL 413, 27 SEPTEMBER 2001, pages 400-403.

- 15    I hope that you will be able to consider my response, in particular section 2, section 4 and section 12 in which I provide reasonings showing that the gamma from Co<sup>60</sup> are entangled, and that the X-rays coming from the Bremsstrahlung of 6 MeV electrons are also entangled. Although explaining a posteriori an invention is not required by the law, I have included the reasonings in terms of spin and metastability of isomer nuclides which account for the detailed measurements provided in the Declarations under 37
- 20    C.F.R 1.132 filed January 13<sup>th</sup>, 2012. The metastability of isomer nuclides allows for local energy to be released upon de-excitation. This may be the main issue.

Respectfully,

- 25    S-SIGNED: /ROBERT DESBRANDES/

Robert DESBRANDES

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